UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

### NOTICE OF ALLOWANCE AND FEE(S) DUE

52835

7590

05/13/2010

HAMRE, SCHUMANN, MUELLER & LARSON, P.C. P.O. BOX 2902 MINNEAPOLIS, MN 55402-0902 EXAMINER

CHU, YONG LIANG

ART UNIT PAPER NUMBER

1626

DATE MAILED: 05/13/2010

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/583,046	06/15/2006	Keiji Kubo	8279.1128USWO	7165

TITLE OF INVENTION: UREA DERIVATIVE, PROCESS FOR PRODUCING THE SAME, AND USE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/13/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

#### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

ppropriate. All further ndicated unless correcte naintenance fee notifica	ed below or directed oth	ng the Patent, advance on herwise in Block 1, by (a	rders and notification a) specifying a new c	of m	naintenance fees w pondence address;	ill be and/or	mailed to the current (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)					s) Transmittal. This rs. Each additional	s certif paper	icate cannot be used for	domestic mailings of the or any other accompanying at or formal drawing, must
52835	7590 05/13	/2010		nave				niccian
HAMRE, SCH P.O. BOX 2902 MINNEAPOLIS	LER & LARSON,	N, P.C.		Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.				
								(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/583,046	06/15/2006	•	Keiji Kubo			82	279.1128USWO	7165
		PROCESS FOR PRODU					TOTAL PERON DATE	T PAGE DATE
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE I	DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$300 \$0			\$1810	08/13/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	3				
CHU, YON		1626	514-254010					
. Change of corresponde CFR 1.363).  Change of corresp Address form PTO/SI  "Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.	(1) the names of to agents OR, alter (2) the name of a registered attorney 2 registered patent	2. For printing on the patent front page, list  (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.						
PLEASE NOTE: Unl	less an assignee is identi h in 37 CFR 3.11. Comp	A TO BE PRINTED ON This ified below, no assignee oletion of this form is NO	data will appear on t	he pa g an a	ntent. If an assigne assignment.			ocument has been filed for
lease check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent):		Individual 🖵 Co	rporati	on or other private gro	up entity Government
a. The following fee(s)  Issue Fee  Publication Fee (N Advance Order - +	permitted)	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).						
_ ` .	<b>tus</b> (from status indicated as SMALL ENTITY statu	· ·	☐ b Applicant is no	. long	vor claiming SMAI	I EN	ГІТҮ status. See 37 СF	(P 1 27(a)(2)
NOTE: The Issue Fee an	d Publication Fee (if requ		d from anyone other tl	-	-			e assignee or other party in
Authorized Signature					Date			
Typed or printed name					•			
his collection of inform n application. Confiden ubmitting the completed nis form and/or suggesti Sox 1450, Alexandria, V Nexandria. Virginia 223	tiality is governed by 35 d application form to the ions for reducing this but 7 irginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the ONOT SEND FEES OR	on is required to obtain 1.14. This collection is depending upon the e Chief Information C COMPLETED FORM	n or re is esti indivi Office IS TC	etain a benefit by the imated to take 12 n idual case. Any col r, U.S. Patent and T THIS ADDRESS	ne publ ninutes mment Fraden . SENI	lic which is to file (and to complete, including to on the amount of tin nark Office, U.S. Depa D TO: Commissioner f	by the USPTO to process) g gathering, preparing, and he you require to complete rtment of Commerce, P.O. for Patents, P.O. Box 1450,

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450

P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/583,046	06/15/2006	Keiji Kubo	8279.1128USWO	7165		
52835 75	590 05/13/2010		EXAMINER			
HAMRE, SCHU	MANN, MUELLER	CHU, YONG LIANG				
P.O. BOX 2902		ART UNIT	PAPER NUMBER			
MINNEAPOLIS, I	MN 55402-0902		1626			
		DATE MAILED: 05/13/2010				

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	10/583,046	KUBO ET AL.				
Notice of Allowability	Examiner	Art Unit				
	YONG CHU	1626				
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 1. ☑ This communication is responsive to 02/23/2010.  2. ☑ The allowed claim(s) is/are 1, 4, 15-16, 18-19, 26 and 31 (r) 3. ☑ Acknowledgment is made of a claim for foreign priority under a) ☑ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have	vars on the cover sheet wat (OR REMAINS) CLOSED or other appropriate comming GHTS. This application is and MPEP 1308.  The enumbered as 1-8).  The der 35 U.S.C. § 119(a)-(d) been received.  The been received in Application is an application is an application is a second in Application is a second in Application in Application is a second in Application in Applicat	ith the correspondence address in this application. If not included nunication will be mailed in due cousubject to withdrawal from issue a or (f).	rse. <b>THIS</b> t the initiative			
<ol> <li>Copies of the certified copies of the priority doc International Bureau (PCT Rule 17.2(a)).</li> <li>Certified copies not received:</li> </ol>	cuments have been receive	ed in this national stage application	from the			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.  A SUBSTITUTE OATH OR DECLARATION must be submi	ENT of this application.					
INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.  (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).  6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6.	nformal Patent Application Summary (PTO-413), ./Mail Date s Amendment/Comment s Statement of Reasons for Allowa	nce			

# **DETAILED ACTION**

Claim 31 is new by the amendment dated 02/23/2010. Claims 1, 4, 15-16, 18-19, 24-26 and 31 are currently pending.

# Response to Amendment

The Amendment by Applicants' representative Mr. Douglas P. Muller dated 02/23/2010 has been entered.

# Response to Arguments

### Claim rejection under 35 U.S.C. §112(i)

Applicants have cancelled all the rejected claims. The rejection is moot.

#### Claim rejection under 35 U.S.C. §112(ii)

Applicants have cancelled all the rejected claims. The rejection is moot

#### Claim rejection under 35 U.S.C. §102(b)

Applicants' amendment of claim 1 by redefining linker **X** as a methylene substituted with the specific groups obviates the rejection. The previously cited prior art compounds have linker **X** as an ethylene group.

#### Claim rejection under 35 U.S.C. §103(a)

Applicants' amendment of claim 1 by redefining linker **X** as a methylene substituted with the specific groups listed as (1)-(8) obviates the rejection. The previously cited prior art compounds have linker **X** as an ethylene group, which is further substituted with a piperidine substituted carbonyl piperidine group. The instantly claimed compounds linker **X** as a methylene group, and maybe substituted with a group

Application/Control Number: 10/583,046 Page 3

Art Unit: 1626

selected from substituents (1)-(8). None of the groups (1)-(8) is a carbonyl group. Therefore, the 103(a) rejection is hereby withdrawn.

## Claim objection

Applicants' amendment obviates the objection.

# Rejoinder

Claims 1, 4, 15-16, 18-19, and 31 are direct to an allowable product. Pursuant to the procedures set forth in MPEP §821.04(B), claims 24-26, directed to a method of using an allowable product for treating the diseases, previously withdrawn from consideration as a result of a restriction requirement, are hereby rejoined and fully examined for patentability under 37 CFR 1.104. Because a claimed invention previously withdrawn from consideration under 37 CFR 1.142 has been rejoined, the restriction requirement among groups I-III as set forth in the Office action mailed on 12/20/2007 is hereby withdrawn. In view of the withdrawal of the restriction requirement as to the rejoined inventions, applicant(s) are advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Once the restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

#### Examiner's amendment

An examiner's amendment to the record with the authorization by Applicants' representative Mr. Douglas P. Muller dated 05/06/2010 appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Delete claims 24-25.

In **claim 26**, line 1, **delete** "preventing and/or" after "A method of".

#### Conclusions

Claims 1, 4, 15-16, 18-19, 26 and 31 are allowed.

#### Telephone Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yong Chu, *Ph.D.*, whose telephone number is 571-272-5759. The examiner can normally be reached on 7:00 am - 3:30 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph K. M<sup>©</sup>Kane can be reached on 571-272-0699. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/583,046 Page 5

Art Unit: 1626

Status Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Yong Chu/ Primary Patent Examiner Art Unit 1626